

Atty. Docket No. YOR920030199US1
(590.110)

Amendments to the Specification:

Please replace the paragraph starting on page 6, line 1 with the paragraph below:

Referring now to Figure 2, U is the universal set of all objects, where objects may display zero, one or more features. The collection of objects from U that possesses a specific feature i is referred to as the object set S_i with $1 \leq i \leq n$. Q represents a defined collection of objects from U that are known to belong to a particular class or classification bucket. For a given $k \leq n$, the objective is to obtain the best combination of some k features that constitutes the most specific and sensitive signature characteristic of the object collection Q. Usually membership to Q is a non-obvious attribute. For instance, $S_i(s)$ are a priori attributes of an event and Q is the a posteriori outcome.

Please replace the paragraph starting on page 11, line 11 with the paragraph below:

Hence, in this step the optimal value can be obtained simply by traversing through S'_i 's and making a local decision which guarantees a global minimum. The algorithm works as follows: Let LE be the boolean expression and O, the cost being minimized.